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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561,628	02/09/2006	Charli Kruse	B1180/20049	8428	
3000 7590 03/H/2008 CAESAR, RIVISE, BERNSTEIN.			EXAM	EXAMINER	
COHEN & POKOTILOW, LTD. 11TH FLOOR, SEVEN PENN CENTER 1635 MARKET STRIET 1636 MARKET STRIET			BARNHART, LORA ELIZABETH		
			ART UNIT	PAPER NUMBER	
PHILADELPH	IIA, PA 19103-2212		1651		
			NOTIFICATION DATE	DELIVERY MODE	
			03/11/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail $\,$ address(es):

patents@crbcp.com

Application No. Applicant(s) 10/561,628 KRUSE ET AL. Office Action Summary Examiner Art Unit

		Lora E. Barnhart	1651	
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ad	Idress
Period fo	or Reply			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA misons of time may be available under the provisions of 37 CFR 1.13 SIX (6) MCNT1S from the making date of this communication. The reply received by the Cell of the provisions of the provision of the provi	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,
Status				
2a)□	Responsive to communication(s) filed on	- action is non-final. ice except for formal matters, pro		e merits is
Disposit	ion of Claims			
5) 6) 7)	Claim(s) <u>1-28 and 32-41</u> is/are pending in the a 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-28 and 32-41</u> are subject to restriction	n from consideration.		
Applicat	ion Papers			
10)□	The specification is objected to by the Examiner The drawing(s) filed onis/are: a) accept Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correct The oath or de	epted or b) objected to by the E drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 Cl	
Priority (under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachmen	nt(s)			
1) M Notic	on of Perforances Cited (PTO 802)	4) Interview Summary	(PTO.413)	

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SE/C8) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____. 5) Notice of Informal Patent Application Paper No(s)/Mail Date _____ 6) Other:

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DETAILED ACTION

Claims 1-28 and 32-41 as recited in the preliminary amendment filed with the application on 12/20/05 are currently pending.

Format and Style of Claims

The claims are currently replete with language that is indefinite under 35 U.S.C. § 112, second paragraph, and recite non-statutory matter under 35 U.S.C. § 101, including "use"-type statements (see claims 13-20, e.g.). In the interest of compact prosecution and to aid examination, the examiner recommends applicant consider amending the claims such that they recite positive method steps, e.g. "contacting," "co-culturing," etc. that particularly point out the methods being claimed.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-17, drawn to a method for making cells that produce pancreatic hormone from pluripotent stem cells obtained from differentiated exocrine glandular tissue.

Group II, claim(s) 18-21, drawn to methods for using cells that produce pancreatic hormone.

Group III, claim(s) 22-28 and 32-41, drawn to cells that produce pancreatic hormone and compositions comprising the same.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or

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corresponding special technical features for the following reasons: The technical feature that unifies them does not make a contribution over the prior art.

The expression "special technical feature" refers to those features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art. Thus, a feature found in the prior art cannot be considered to be a special technical feature.

In this case, the technical feature that unifies the Groups is cells that produce pancreatic hormone. Isolated cells that produce pancreatic hormone were known in the art at the time of the invention. For example, Sun et al. (1982, U.S. Patent 4,323,457; reference A) teach cells isolated from pancreatic islets that produce insulin (column 4, lines 24-37). According to M.P.E.P. § 2113, the process limitations of a product-by process claim (e.g. "having been generated from a pluripotent stem cell" in claim 22) do not materially affect the properties of the product in the absence of evidence to the contrary. Pancreatic hormone-producing cells made by one method are identical to such cells made by any other method.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Stimulatory actions: (a) treatment with supernatant of a primary culture of endocrine pancreas, (b) treatment with supernatants of cell lines of endocrine pancreas, (c) co-culture with differentiated cells of endocrine pancreas, (d) co-culture with cell lines of endocrine pancreas, and (e) treatment with immobilized molecular growth factor, as in claim 7; elect ONE if Group I is elected.

Additional cell types: (f) stem cells and (g) neighboring cells of islets of Langerhans in pancreatic tissue, as in claim 27; elect ONE if Group III is elected.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: 1-6, 8-26, 28, and 32-41.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Pursuant to PCT Rule 13.2 and PCT Administrative Instructions, Annex B, Part 1(f)(I)(B)(2), the species are not art-recognized equivalents. When alternatives of chemical compounds are claimed, they shall be regarded as being of a similar nature where all alternatives have a common property or activity, and either a significant structural element is shared by all of the alternatives, or all of the alternatives belong to a recognized class of chemical compounds in the art to which the invention pertains. The words "significant structural element is shared by all of the alternatives" refer to cases where the compounds share a common chemical structure which occupies a large portion of their structures, or in case the compounds have in common only a small portion of their structures, the commonly shared structure constitutes a structurally distinctive portion in view of existing prior art, and the common structure is essential to the common property or activity. The structural element may be a single component or a combination of individual components linked together. The words "recognized class of chemical compounds" mean that there is an expectation from the knowledge in the art that members of the class will behave in the same way in the context of the claimed invention. In other words, each member could be substituted one for the other, with the expectation that the same intended result would be achieved.

In this case, the stimulatory treatments in (a)-(e) require different materials (cells per se, conditioned media, immobilized peptides and small molecules) that are not art-accepted equivalents because they have different effects on stem cells. The cell types in (f) and (g) are not art-accepted equivalents; stem cells are undifferentiated, while cells in the islets of Langerhans are specialized and differentiated.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lora E. Barnhart whose telephone number is (571)272-1928. The examiner can normally be reached on Monday-Thursday, 9:00am - 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.